

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

RECEIVED

MAR 13 2003

Applicants: Elazar Rabbani et al.

TECH CENTER 1600/2900

Filed: November 25, 1997

Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
mms	5 1 6 6 3 2 0	11/24/92	Wu, G.Y.			
mms	4 6 8 7 7 3 2	8/18/87	Ward, D.C.			
mms	5 2 6 0 4 3 3	11/9/93	Engelhardt, D.			
mms	4 7 1 1 9 5 5	12/8/87	Ward D.C.			
mms	5 2 4 1 0 6 0	8/31/93	Engelhardt D.			
mms	4 7 0 7 4 4 0	11/17/87	Stavrianopoulos J.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
mms	EP 0 2 8 5 0 5 7B 1	3/1/05	EP			
mms	WO 9 5 2 6 2 0 0	10/5/95	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Schwartz, D.A. et al., Gene 127:233-236 (1993)
mms	Dunn J.J. et al., Gene 68:259-266 (1988)
mms	Fuerst, T.R. et al., Proc. Nat Acad. Sci. U.S.A. 83: 8122-8126 (1986)
mms	Lieber, A. et al., Nucleic Acids Research 17(21): 8485-8493 (1989)
mms	Lieber, A. et al., Methods in Enzymology 217:47-67 (1993)

EXAMINER *U. Schenck* DATE CONSIDERED *3/22/03*

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

RECEIVED

MAR 18 2001

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Applicants: Elazar Rabbani et al.

TECH CENTER 1600/2900

Filed: 11/25/97

Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>mms</i>	Davenloo, P. et al., Proc. Nat. Acad. Sci. U.S.A. 81: 2035-2039 (1984)
<i>mms</i>	Morris, C.E. et al., Gene 41:193-200 (1986)
<i>mms</i>	Kotani, H. et al., Nucleic Acids Research 15(6):2653-2664 (1987)
<i>mms</i>	Dubendorff, J.W. and Studier, F.W., Journal of Molecular Biology 219: 61-68 (1991)
<i>mms</i>	Dahlberg, J.E. and Lund, E., "The Genes and Transcription of the Major Small Nuclear RNAs," in Structure and Function of Major and Minor Small Nuclear Ribonucleoprotein Particles, Birnstiel, M. Ed., Springer Verlag, Berlin, Heidelberg, NY, London, Paris, Tokyo , pp. 38-70 (1988)
<i>mms</i>	Zieve, G.W. and Sautereau, R.A., Biochemistry and Molecular Biology 25(1):1-46 (1990)

EXAMINER

M. Schenck

DATE CONSIDERED

3/22/05

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

RECEIVED

MAR 13 2003

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Applicants: Elazar Rabbani et al.

TECH CENTER 1600/2900

Filed: 11/25/971995 Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
mms	4 8 4 3 1 2 2	6/27/89	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Izant, J.G. and Sardelli, A.D., "Antisense Inhibititon of RNA Splicing," in <u>Current Communications in Molecular Biology, Antisense RNA and DNA</u> , Melton, D.A., Ed., Cold Spring Harbor Laboratory, pp. 141-149 (1988)
mms	You, C-Y and Weiner, A.M., <u>Molecular and Cellular Biology</u> 9(8):3429-3437 (1989)
mms	Chen, C.J. et al., "Inhibition of HIV-1 Replication by Novel Multitarget Ribozymes," <u>Antisense Strategies</u> , Annals of the New York Academy of Sciences 660:271-273 (1992)
mms	Zhou Z. et al., <u>Gene</u> 149:33-39 (1994)
mms	Lisziewicz, J. et al., <u>Proc. Natl. Acad. Sci. USA</u> 90:8000-8004 (1993)
mms	Husson, R.N. et al., <u>The Journal of Pediatrics</u> 121(4):621-633 (1992)
mms	Yu, M. et al., <u>Gene Therapy</u> 1:13-16 (1994)
mms	Sczakiel, G. et al., <u>Journal of Virology</u> 66(9):5576-5581 (1992)
EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

Applicants Elazar Rabbani et al.

Filed: 11/25/971995 Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Sczakiel, G. and Pawlita, M., <u>Journal of Virology</u> 65(1):468-472 (1991)
mms	Cotton, M. and Birnstiel, M.L., <u>The EMBO Journal</u> 8(12):3861-3866 (1989)
mms	Nichols, R. et al., <u>Nature</u> 369:492-493 (1994)
mms	Eritja, R. et al., <u>Nucleic Acids Research</u> 14(20):8135-8153 (1986)
mms	Lever, A.M.L., <u>British Medical Bulletin</u> 51(1):149-166 (1995)
mms	Wu, C.H. et al., <u>The Journal of Biological Chemistry</u> 264(29):16985-16987 (1989)
mms	Wagner, E. et al., <u>Proc. Natl. Acad. Sci. USA</u> 89:6099-6103 (1992)
mms	Ruoslahti, E. et al., <u>The Journal of Biological Chemistry</u> 256(14):7277-7281 (1981)
EXAMINER	DATE CONSIDERED

me Schindel

3/22/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Applicants: Elazar Rabbani et al.

RECEIVED

MAR 13 2003

TECH CENTER 1600/2900

Filed: 11/25/97 Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Cristiano, R.J. et al., Proc. Natl. Acad. Sci. USA 90:2122-2126 (1993)
mms	Curiel, D.T. et al. Proc. Natl. Acad. Sci. USA 88:8850-8854 (1991)
mms	Wagner, E. et al., Proc. Natl. Acad. Sci. USA 89:7934-7938 (1992)
mms	Argos, P. et al., The EMBO Journal 5(2):433-440 (1986)
mms	Kessler, C., "Detection of Nucleic Acids by Enzyme-Linked Immuno-Sorbent Assay (ELISA) Technique: An Example for the Development of a Novel Nonradioactive Labeling and Detection System With High Sensitivity," in Advances in Mutagenesis Research I, Obe, G. Ed., Springer Verlag, Berlin, 105-152 (1990)
mms	Rigby, P.W. et al., Journal of Molecular Biology 113:237-251 (1977)
mms	Saiki, R. et al., Science 239:487-491 (1985)
mms	Melton, D.A. et al., Nucleic Acids Research 12(18):7035-7056 (1984)
EXAMINER <i>W. Schmale</i>	DATE CONSIDERED <i>3/22/03</i>

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/978,635

RECEIVED

MAR 13 2003

TECH CENTER 1600/2900

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Applicants: Elazar Rabbani et al.

Filed: 11/25/97

Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Roychoudhury, R. et al., Nucleic Acids Research 6(4):1323-1333 (1979)
mms	Cook, A.F. et al., Nucleic Acids Research 16(9):4077-4095 (1988)
mms	Agrawal, S. et al., Nucleic Acids Research 14(15):6227-6245 (1986)
mms	Jablonski, E. et al., Nucleic Acids Research 14(15):6115-6128 (1986)
mms	Staerz, U.D. and Bevan, M.J., Proc. Natl. Acad. Sci. USA 83:1453-1457 (1986)
mms	Fanger, M.W., Critical Reviews in Immunology 12(3,4):101-124 (1992)
mms	Gruber, M. et al., Journal of Immunology 152:5368-5372 (1994)
mms	Holliger, P. et al., Proc. Natl. Acad. Sci. USA 90:6444-6448 (1993)

EXAMINER

M. Schmid

DATE CONSIDERED

3/22/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office		Atty. Docket No. ENZ-53(D4)	Serial No. 08/978,635
INFORMATION DISCLOSURE CITATION (use several sheets if necessary)		RECEIVED MAR 13 2003 TECH CENTER 1600/2900	
		Applicants: Elazar Rabbani et al.	
		Filed: 11/25/97	Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Anderson, W.F. et al., <u>Nature</u> 290:754-758 (1981)
mms	Palsson, B.O. et al., <u>Biotechnology</u> 11:372368 (1993)
mms	Koller, M.R., et al., <u>BioTechnology</u> 11:358-363 (1993)
mms	Koller M.R. et al., <u>Blood</u> 82(2):378-384 (1993)
mms	Mount, S.M., <u>Nucleic Acids Research</u> 10(2):472 (1982)
mms	Mayeda, A. and Oshima, Y., <u>Nucleic Acids Research</u> 18(16):4676 (1990)
mms	Chu, F.K. et al., <u>Proc. Natl. Acad. Sci. USA</u> 81:3049-3053 (1984)
mms	Chu F.K. et al., <u>The Journal of Biological Chemistry</u> 260(19):10680-10688 (1985)

EXAMINER M. Schmale DATE CONSIDERED 3/22/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office</p> <p>INFORMATION DISCLOSURE CITATION (use several sheets if necessary)</p>	<p>Atty. Docket No. ENZ-53(D4))</p>	<p>Serial No. 08/978,635</p> <p>RECEIVED</p> <p>MAR 13 2003</p>
		Applicants: Elazar Rabbani et al.
		Filed: 11/25/97 Group: 1635

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION
							YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>mws</i>	Muzyczka, N., <u>Current Topics in Microbiology and Immunology</u> 158:97-129 (1992)
<i>mms</i>	Rafestin, M.E. et al., <u>FEBS Letters</u> 40(1):62-66 (1974)
<i>mms</i>	Lear, J.D. and DeGrado, W.F., <u>The Journal of Biological Chemistry</u> 262(14):6500-6505 (1987)
<i>mms</i>	Kalderon D. et al., <u>Cell</u> 39:499-509 (1984)
<i>mms</i>	Stavrianopoulos J.G. et al., <u>Proc. Nat. Acad. Sci. USA</u> 69(9):2609-2613 (1972)

***EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce
(REV. 8-83) Patent and Trademark Office

Atty. Docket No.
ENZ-53(D4)

Serial No. 08/878,635

RECEIVED

MAR 13 2003

INFORMATION DISCLOSURE CITATION
(use several sheets if necessary)

Applicants: Elazar Rabbani et al.

TECH CENTER 1600/2900

Filed: 11/25/97

Group: 1635

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

mms	Nitta, T. et al., Eur J. Immunol. 19:1437-1441 (1989)
num	Horton, R.M. et al., BioTechniques 8(5):528-535 (1990)
num	Horton, R.M. et al., Gene 77:61-68 (1989)
mms	Scharf, S.J. et al., Science 233:1076-1078 (1986)
mms	Saiki, R.K. et al., Science 230:1350-1354 (1985)
mms	Kozak, M., Cell 44:283-292 (1984)

EXAMINER

VM Schmid

DATE CONSIDERED

3/22/03

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.